



Published by the Utah Amateur Radio Club HAM HOTLINE-583-3002 The MICROVOLT 632 University Street, Salt Lake City, Ut. 84102

PERIODICALS

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the

MICROVOLT

PLEASE SEND DUES TO:

U.AR.C.

c/o GARY OPENSHAW

861 ROOSEVELT AVE.

S.L.C. UT 84105

SEND TO:

THE MICROVOLT (USE'S 014300) in published monthly except August for \$6 per year or 60 cents per issue by the Utils. Assureur Radio Clish, 632 University St. Salt Lake City, UT 84102. Second Clise postage paid at Salt Lake City. POSTMASTER: Sund address change to "The Microvolt" 861 Reserved. Ass., NLC 84105

1996 Utah Amateur Radio Club Officers and Others

President- Bruce Bergen KI7OM (Hm) 943-1365 (WK) 486-3371 bbergen@xmisslan.com

Executive Vice President-Gindy Poters KB7OUT (HM) 268-4410

Vice President-Gordon Smith K7HFV 582-2438 gordon@shell.portel.com

Secretary- Gary Openshaw KG7AWU 861 Received Avenue, SLG UT 84105 484-3407

Tressurer-Chack Johnson WA7JOS 268-0153 obusk@bts ele.com

Microsoft Editor- Cokia Eddy KC7MDV 8719 Newall Drive, West Jorden, UT 84088 280-1762 Companion and 73060,1510

Asst. Microvolt Editor-Maurine Strektenfinger KC7HOZ 254-1536

Program Chairpersons
Alan Sayboldt KC7MUZ- Linda Reeder N7HVF
Alan- alatropt@burgayna.com Linda-364-7006

Hem Hotline-Verna Bennion 583-3002

Book Dealer-Frad DeSmet KG7KM 2333 East 3225 South. SLG, UT 84109 485-9245

Histories-Garol McWharter KC7LLW

ARRL Soot. Mgr. For Utah-Jim Rudnicki NZ7T

UARG REPEATER GOMMITEE
Trustoo-Ron Jones K7RJ 561-2685
Board Lieison Gordon Smith K7HFV 582-2438
Repeater Engineer-Rendy Finch K7SL 277-7135
Autopatch, Eng.-Gordon Smith K7HFV
Asst, Rov. Eng.-John Parken KA7GZH

1996 WIMU Chair-Deans Anderson ICI7HO

Part President-Rey Allen N7TE: 593-0949

Repealer Monitor-Allen Wright N7QFI 268-8482

Printing By-Don Bunngartner WN7D BEEHIVE PRINTING 3326 S. 275 East SLG, UT 84115 485-9178

Microvolt Midnight Copy-Editors and Coordinators of Mischief- Las Stuart's Trails

The Utsh Ameteer Radio Clob was ergenized under it's present name in 1927, although its beginnings my date back as early or 1909. In 1928, it became affiliated with the American Radio Raley League (club #1602) and is a non-profit organization under the laws of Utsh. It holds a club station linears with the sell W7SP, a memorial cell for Leonard (Zim) Zimmerman, an emateer radio piecear in the Salt Lake City Area. The club ments each must be assept July and Angest. The meetings are hold so the first Thursday of the menth at 7:30 PM in the Exhibition hell located on the Salt Lake County Foirgrounds just south of Marray City Park. Club membership is open to acyone interested in ameteur radio; a current licease is not required. Dues are \$13 per year, lecturing a MIGROVOLT subscription. These living at the same address as a member who has paid \$13 may obtain a membership without a Microvolt subscription for \$9. ARRI, membership researchs should spealty ARRI, Club #1602. UARC meintains the following repeators: 146.62 (minus) and 449.10. The repeators are administrated by the UARC repeator accounting. Community and quantions may be directed to any committee member. The Lake Mountain repeator (146.76 minus offset) has Antepateh facilities on both the Oran exchange (covering Santaquin to Laki) and the Salt lake City exchange (covering Draper to Layton). The 449.10 repeator has antepateh facilities into Salt Lake City only. Due to the release of traffle, only mobiles should use this autopatch. Autopatch are is open to all visitors to our area and to all oleb members. Non members who wish to use the Autopatch are assuuraged to help with and maintaining a club memberchip. THE MICROVOLT: The Microvolt is the efficial publication of the clab. Deadling for submissions are wiseoms but what is printed and editing are the expansibility of the UARC based, Reprints are allowed with proper credits to the MicROVOLT, UARC, and authors.



THE MICROVOLT

Publication of the Utah Amateur Radio Club VOLUME XL ISSUE 6 JULY, 1996 LAST MICROVOLT UNTIL SEPTEMBER!!



HAM HOTLINE!!



Tentative 1996 Schedule

JULY 13: Steak Fry (The Spruces)

AUG. 2, 3, 4: WIMU Held at Olympia Park

Hotel, Park City

SEPT. 5: Swap Meet

OCT. 3: (still undecided)

NOV 7: HomeBrew and Election (Microvolt Editor's

Birthday!) Nominations for New Club

Officers and Microvolt Editor

(Just Joking)

But I will run again.

DEC. 5: Elections and Plans for The

New Year

LAST CALL WIMU '96

Remember that The 64th Annual Wyoming, Idaho, Montana and Utah Amateur Radio Convention

(WIMU) for 1996 will be held August 2, 3, and 4 in

Park City , Utah. For reservations you can call the Olympia Park Hotel at 1-800-234-9003 for reservations starting now, We have been given a special rate of \$62 per room, plus tax, single or double occupancy. Be sure to tell them that you are a part of WIMU to get the discount.

Camping reservations may be made with the Hidden Haven Campground (6 miles west of the hotel at the Kimball Junction exit of I-80) by calling 801-649-8935. The hotel and campground hosts

have suggested that reservations be made as early as possible due to the Arts Festival being held that

same weekend. Some of the spectacular activities that have been scheduled for the HAMS and their families, are a multitude of fortims and a lot of prizes. The forums include:

- Packet Radio
- Batteries
- QRP-low power Operation
- DX Operations
- Basic Radio Etiquette For New Hams
- Winter Driving Techniques By UTHP
- CW Operations
- ARES/RACES 72-Hour Kits
- Satellite Communications
- Antennas
- Radio Direction Finding
- MARS Emergency Reporting
- Electronic Test Equipment and Building Techniques
- HANDI- HAMS
- Ballooning and Amateur Radio
- ARRL Discussion With Visits From Headquarters

You can now reach Duane at kj7ho@utah-inter.net 443 East Brandt CT., #30 SLC, UT 84107 phone (801)288-1859

You can still visit our WIMU web page at http://www.xmission.com/~mistral/WIMU96.html





UTAH AMATEUR RADIO EXAMINATION SCHEDULE

May 14, 1996

(For more details see the listing of "Programs by City" at the end.)

Date Location Contact Person Home Ph. Bus. Ph.

07/03/96 (Wed.) Farmington Brent Thomas, AC7H 292-8110 539-3700

07/08/96 (Mon.) Delta Stephen Bowes, KB7SSF 864-5936

07/17/96 (Wed.) Provo Steve Whitehead, NV7V 465-3983 225-5200

07/30/96* (Tues.) Salt Lake C. Eugene McWherter, N7OVT 484-6355

08/03/96 (Sat.) Salt Lake C. Gordon Smith, K7HFV 582-2438 534-8116

08/21/98 (Wed.) Provo Steve Whitehead, NV7V 465-3983 225-5200

08/27/96° (Tues.) Sait Lake C. Eugene McWherter, N7OVT 484-6355

09/04/96 (Wed.) Farmington Brent Thomas, AC7H 292-8110 539-3700

09/09/96 (Mon.) Delta Stephen Bowes, KB7SSF 864-5936

09/18/96 (Wed.) Provo Steve Whitehead, NV7V 465-3983 225-5200

09/24/96* (Tues.) Salt Lake C. Eugene McWherter, N7OVT 484-6355

10/05/96 (Sat.) Salt Lake C. Gordon Smith, K7HFV 582-2438 534-8116

10/16/96 (Wed.) Provo Steve Whitehead, NV7V 465-3983 225-5200

10/29/96* (Tues.) Salt Lake C. Eugene McWherter, N7OVT 484-6355

11/02/96 (Sat.) Ogden Matt George, AB7GM 393-9159

11/20/96 (Wed.) Provo Steve Whitehead, NV7V 465-3983 225-5200

THE MICROVOLT

* Only Novice and Technician elements (1A, 2, and 3A) given at this session.

Send additions or corrections to Gordon Smith, K7HFV. **EXAMINATION PROGRAMS BY CITY**

City: Brigham City Contact Person: Bob Anderson.

AA7TR VEC: ARRL

Phone: 257-3021 Location: Basement of Zion's Bank at Main and First

Schedule: Twice annually, spring and fall. Details vary. Code tests at 6 p.m. Written tests at 7 p.m.

City: Farmington VEC: ARRL

Contact Person: BrenThomas.AC7H

637 East 2150 South Bountiful, Utah 84010

Home Ph: 298-3322 Bus. Ph: 538-3700

Location: Davis County Jail Complex,

800 West State St., Farmington

Service entrance

Schedule: First Wednesday of Jan., Mar., July, and Sept., 7 p.m.

City: Logan VEC: ARRL Contact Person: Paul Hansen, WO7N 1676 East 1600 North

Logan, Utah 84321 Home Ph: 753-4843 Bus. Ph: 752-6425

Schedule: Second Saturday of April and October, 9:00 a.m.

City: Ogden VEC: ARRL

Contact Person: Matthew GeorgeAB7GM

473 Hiland Road Ogden, UT 84404 Phone: 393-9159

Recorded exam information: 627-6064

Location: Weber State College, Science and Technology Building, Rm 228

Schedule: First Saturday of May and November, 8:00

City: Provo

Contact Persons: Steve and Linda

Whitehead

VEC: W5YI

497 South 700 East Payson, Utah 84651

Home Ph: 465-3983 Bus. Ph: 225-

5200

Location: Provo Campus of Utah Valley State College Schedule: Third Wednesday evening of each month Notes: Do not confuse this location with the larger Orem campus.

City: Salt Lake City Contact Person: Gordon Smith, K7HFV

VEC: ARRL

632 University Street Salt Lake City, Utah 84102

Home Ph: 582-2438 Bus. Ph: 532-3400

Ext. 8116

Location: Blue Cross/Blue Shield Cafeteria 2455 East Parley's Way Main (west) building, West door

3

Schedule: First Saturday of Feb., Apr., June, Aug., Oct. and Dec.

20 w.p.m.: 8:00 a.m. 13 w.p.m.: 8:30 a.m. 5 w.p.m.: 9:15 a.m.

No code test needed: Any time between 8 and 10 a.m.

Notes: Pre-registration is required. The owners of the building require

that the door be kept locked. Those who prereregister will receive

the code required to get in. Pre-registration also speeds the session and gets licenses on the way faster after the session. It takes only a few minutes by phone or on the air. Gordon usually monitors 146.62.

City: Salt Lake City McWherter, N7OVT

VEC: W5YI

Contact Person: Eugene

536 E. Leland Avenue Salt Lake City, Utah 84115

Home Ph: 484-6355

Location: Granite High Seminary Building Approximately 33rd South and 5th East

Schedule: Last Tuesday of each month, 7 p.m.

Notes: This session is intended primarily for those seeking Novice, Technician, or Technician-plus licenses.

Only elements 1A, 2 and 3A will be administered. Preregistration is required.

THINGS TO BRING TO TEST SESSION

- 1. Two forms of ID (If licensed , your original and one form of ID)
- \$6.05 Cash or Check.
- A copy of your licensee, and or copies of your pending 610 form or certificate of credit along with the original.
- You may bring a filled out 610 form or a form will be available at the test session.
- Pencils or pens.
- You may bring a calculator but you must show that it is not pre-programmed.

EAST HIGH SCHOOL IS SPONSORING AN AMATEUR NOVICE, TECH, TECH+ CLASS WILL INCLUDE CODE. WILL BE SEPT., 19 FROM 7-9 PM FOR 8 WEEKS. 8th SOUTH 1300 EAST



UARC WEB PAGE ADDRESS! http://www.xmission.com/~uarc

THE MICROVOLT



Information



My CompuServe address 73060,1510
Our ARRL Section Manager
jimkatpa@aol.com

ARRL Home page http://www.arl.org Canadian Bacon (Hams) http://www.rac.ca DX Info

http://www.clinetifl/~jukka/webcluster.html

Electronic Swapmeet

http://www.westes.com/Ads/Ads.html

Our Federal Government http://www.fedworld.gov F.C.C. http://www.fcc.gov House of Representatives

http://www.house.gov Internet/Packet Gateway http://www.w2xo.pgh.pa.us

I.T.U. Info http://www.itu.ch

Lat/Long Lookup

http://www.mit.edu:8001/geo

Neighborhood Antennas

http://www.hamweb.com/~sji/stoner/antenna .html

NTIA http://www.ntia.doc.gov Sarax

http://www.nasa.gov/sarex/sarex_mainpage. html

REMEMBER, IF YOU HAVE A INTERNET ADDRESS THAT YOU WOULD LIKE IN THE MICROVOLT, OR A WEB PAGE THAT YOU FIND PARTICULARLY USELESS, I MEAN USEFUL, PLEASE CALL COKIE AT 280-1762.

OVERHEARD AT A RECENT BOARD

MEETING- We were going over particulars for the Steak Fry, such as money that needed to be allocated for certain things. Someone moved for ice cream money, someone else seconded it, it was law. Someone else brought up the subject of porta-potties. Maureen turned a bright red after she raised her hand and realized that she she had said: "I move on the porta-potties!"



UTAH AMATEUR RADIO CLUBS

UARC or Utah Ameteur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Theatre Building located on the Salt Lake Gounty Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting at 7:00 PM.

The Davis Gounty Ameteur Redio Glub moots the 2nd Saturday of each month at 10:00 AM at the Davis Gounty Sheriff's Office, 800 West State street, Fermington UT. Members and nonmembers are welcome. Dues are \$15.00 per year and can be paid at any club meeting. The Davis Glub supports the 147.04 repeater. DAVIS ARES conducts a net each Thursday at 7:00 PM on 147.42 simplex. They also have a DAV node for packet on 145.07. For further information please contact Mel Parkes, NSUVP 299-3430.

OARG or Ogden Ameteur Radio Glub meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Gross building at 2955 Harrison BLVD. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O Box 3353, Ogden, Utah 84409. OARG supports the 146.90 repeater and conducts a not there Tuesdays at 7:30 PM. They also support the 146.82 repeater. The contact person is Jerry Peters WA7ADK who can be reached at 825-8798.

The VHF Society is a group dedicated to meintaining a system of repeaters in our area. Dues are \$10:00 per year and can be sent to PO Box 482 Bountiful Utah 84011-0482. The VHF Society holds a swap and traffic net for it's members each Toesday night at 8:00 P.M. on the 146.940 repeater. For further information please contact Eldon Kearl KB70GM at 571-9955.

Salt Lake Gounty ARES (Ameteur Radio Emergency Services) conduct a not each Wednesday Hight at 8:00 PM on the 146.88 repeater. All ameteurs are welcome to participate. Their in-person meeting is held the third Wednesday of each month. For more information please contact John Parken, KA7GZH at 278-5846 or Richard Evens N7PGE at 265-9346.

Utsh Valley ARES holds their general meeting the 1st Tuesday of every menth at 7:00 PM. They also conduct a net each Tuesday at 9:00 P.M. on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Robert Earl. N7EGG at 225-8870

THE MICROVOLT

MARA or Mercary Ameteur Radio Association is a world wide group of Radio Ameteurs dedicated to training and traffic handling for emergency operation. They conduct VIIF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 MHz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact person is Willy Peaks N7VVL at 466-1114. The Ogden area is on the 145.49 repeater and the Prove area on the 145.37 repeater with Vince Newmeyor N7MLP at 785-5611 as their contact person.

UPRA (Utah Packet Radio Association) holds their general meeting on the 2nd Saturday of each month at 2:00 PM at the State Capitel Annex Building north of the State Capital. All amateurs are welcome. The purpose of the club is to educate people who are now to packet and to coordinate packet activities. Their does are \$15.00 per year and can be sent to PO Box 92 Riverton, UT 84065. Their contact person is Jack Christenson, KC7NX at 277-6629.

UBET (Uteh Box Elder Thickel) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 149.29 repeaters. This set is followed by a CW not at approx. 8:30. Net control is Phil Siefkas KJ7LM, Garland UT.. They also meet the first Thursday of every month at 7:00 PM in the basement of the Zions Bank on the corner of main and first north in Brigham City. Their contact person is Stew Greenwood AB7BA at 863-2795.

THE BRIGERLAND AMATEUR RADIO GLUB mosts the 2nd Thursday of the month (except June, July, and August) in the becoment of the Sheriffs Office. They hold a set at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Deen Stevens N7WVY at 753-2664.

THE UTAH TCPIP Green Group Of UTGG is an informal group that discusses TCPIP protocols and other packet information. The are geared to all levels of users, new and seasoned. They hold a weekly net Sundays at 8:00 PM on the 146.620 repeater. Their contact person is Matt Simmons KG7MH at 965-1038

The High Valley Net from Hober meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Dong Neilson, N7PPW at 756-5927 or Joe Cheeworth, KG7GY at 564-3598

The University of Utah Radio Glub is open to University Staff, alumni and students. There is a fully equipped station evailable 24 hours a day. Their contact persons are Marrin Match KA7TPH at 581-6085 or Clint Turner KA7CEI at 972-5541

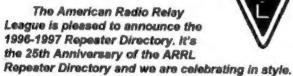
The Selt Lake Community College Ameteur Redio Gleb is open to anyone. They would like to welcome interested parties to join them. They went on the South campus in room N285 on the first Saturday of the Month at 3:00 PM. Places contact Knith KI7SL at 957-3247

Rocky Mountain Radio Assn. is open to all Utah hams and they support the 447.900, 448.400, 448.700 repeaters. Their net is on 447.800 and 52.525 (six meters) every Wednezday night at 8:00.
Please contact Marc Peterson (KB7YJJ) at 977-1845 for infol

Brigham Young University Americar Radio Clab (BYUARC) serves the families of all BYU students, staff, faculty, and alumni. The BYUARC shack offers nearly every possiblemede of americar radio communications. The club also cervices the W7OHR 147.2 60 Mhz and 449.075 Mhz repeatres, located on the BYU campus. Autopatch access is available totall BYUARC members. For more information, call 378-COAX or contact the BYUARC Faculty Representitive, Wayne Voorheis, KC7HKO at veorheis@byu.edu.

NEWS RELEASE

AMATEUR RADIO: A NATIONAL RESOURCE FOR IMMEDIATE RELEASE SALES INFORMATION: LISA TARDETTE 860-594-0255 OTHER INFORMATION: JAY MABEY 860-594-0241 1996-1997 ARRL REPEATER DIRECTORY



Completely updated with the latest information, here's some of what you'll find in the pocket-sized 25th Anniversary of the ARRL REPEATER DIRECTORY.

- expanded listings for US and foreign repeaters as well as greatly expanded propagation beacon listings.
- many handy hints on repeater operation and interference tracking. Also featured is an overview of the use of the LITZ (Long-Time Zero) system and Wilderness Protocol.
- compact and easy access to ARRL Officers (complete with email addresses), Spectrum Committee, Digital Committee and Future Systems Committee, with names and addresses.
- names and addresses for Frequency Coordinators
- ARRL Band plans for all VHF and UHF spectrum allocations.

THE MICROVOLT

 complete listing of ARRL Special Service Clubs, with their meeting times and locations.
 SOFT COVER PUBLICATION DATE: MAY

1996 RETAIL: \$8.00

THE ARRL EXTRA CLASS LICENSE MANUAL (SIXTH EDITION)

The American Radio Relay League is pleased is announce the sixth edition of the ARRL EXTRA CLASS LICENCE MANUAL. This new License Manual has been completely revised and updated to match the newest Amateur Extra Class (Element 4B) Question Pool, released by the Volunteer-Examiner Coordinator's Question Pool Committee in December 1995. The questions in the new question pool will be used on

Amateur Extra Class (element 4B) license exams starting July 1, 1996, and are expected to be used until June 30, 2000.

SOFT COVER PUBLICATION DATE: MAY 1996 RETAIL: \$12.00

This Just In

ROSTER NEWS

At the board meeting lastnight I auestioned the board on what we should do with the roster. There was many good suggestions, such as throw it away.(HI) no just kidding, some people wanted to put it in a Microvolt. Other people felt that they wanted to get a Microvolt instead of a roster. Some people have felt that if they get a roster instead of a MicroVolt, that they are being cheated out of a Microvolt. Which I can understand. last year when we got Decembers roster after not getting one for monthes I was really dissapointed That in January all we got was this lousy (no offense to "roster-creators" everywhere) roster. Until I got ahold of the Microvolt and seen that the Microvolt started to be published monthly.

Some other suggestions was to put the roster in maybe three Microvolts. I wasn't too big on this idea because I was afraid that if anyone was like me at all and they lost part of the roster, then you might be out a bunch of members.

The solution to the Roster problem was to print the whole Roster at a copy shop (not the printer) and to pay for the copying costs. The Roster will be given out at Steak Fry, Swap Meet in September, and maybe upcoming meetings.

We cannot send the Roster (in full) in the Microvolt because of the size of the Microvolts and the size of the Roster. If someone wants a roster, that cannot get to the meetings, then they will have to send me a SASE (Self addressed Stamped Envelope) It will have to be a large envelope, as the Roster is 6 pages long. The Roster is in alphabetical and call order. (It's in larger print, too!) I have considered the fact that we have some people in the club that might have difficulty reading the real small print Rosters.

But anyway, this way it should only cost the club about \$60 dollars versus \$500 or so.

Any questions, feel free to give me a call. Any input is greatly appreciated!

Thanks and 73s
Cokie Eddy
Microvolt Editor



YOU MAY
BE A
TECHNONERD...
-Chuck Johnson
(continued from

last
Microvolt...)

Thanks Chuck!

- 27- If you are currently gathering the components to build your own nucleur reactor.
- 28-If you own one or more white shortsleeve dress shirts.
- 29- If you have ever backed- up your hard drive.
- 30-If you have ever saved the power cord from a broken appliance.
- 31- If you have ever purchased an electronic appliance "as-is".
- 32-If you see a good design but still have to change it.
- 33-If the sales people at(Name a Computer Store!) can't answer any of your questions.
- 34-If you still own a slide rule and you know to work it.

- 35-If the thought that a CD could refer to finance or music never enters your mind!
- 36-If you own a set of itty-bitty screw drivers, but you don't remember where they are.
- 37-If you rotate your screen savers more frequently than your automobile tires.
- 38-If you have a functioning home copier machine, but every toaster you own turns bread into charcoal.
- 39-If you have more toys than your kids.
- 40-If you need a checklist to turn on the TV.
- (Ed. Note- In my house it goes like this...If you want to play a pay channel, you have to stick the TV in Cable...the TV remote box has to be on the station you want to watch...you have to make sure that the TV/VCR button is on TV and then you have to go up and change the Antenna 1/Antenna 2 button. But if you want to watch someting in the kids' room then you have to... (AHHHH!!) The paperwork with the schematic is on the TV- I listen to the radio.)
- 41-If you have introduced your kids by the wrong name.
- 42-If you have a habit of destroying things in order to see how the work.
- 43-If your I.Q. is higher than your weight.

THE MICROVOLT

- 44-If the Microphone or visual aids at a meeting don't work and you rush to fix them.
- 45- If you can remember 7 computer passwords but not your anniversary.
- 46-If you have memorized the program schedule for the Discovery Channel and you have seen most of the shows aleady.

(Continued next Microvolt)

DON'T FORGET!

-Peter H. Grillo AH3C

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You are all invited to participate in the Utah Centennial QSO Party on August 24-25. This is an opportunity for Utah radio amateurs to generate good will, get international recognition, and to have fun all at the same time.

This QSO party can only succeed if we all participate, even if only for a few hours. Single operator and group operations are all encouraged. If you have a mobile rig, or can get away for the weekend to put up an antenna with a portable set up, you are encouraged to find a rare Utah county to operate from. If you can't get away, make sure you find time to operate from home.

Announcements of this activity will be published in CQ Magazine, QST, CQ Contest, National Contest Journal, World Radio, The DX Bulletin, and a large number of world wide radio publications.

You will have an opportunity to be the station that everyone else is looking for. Plan ahead. Any station will do. Throw wires to the trees and make it happen!

For further information, contact Pete (AH3C at 277-4513 or ah3c@burgoyne.com), or Alan (K6XO at 571-7009 or alan@es.com).

<u>UTRH</u> CENTENNIAL QSO PARTY

OBJECT: Stations outside of Utah work as many Utah stations in as many UT counties as possible. Stations in Utah work anyone.

WHEN:

August 24-25, 1996

TIME: Saturday 1500z (0900 MDT)-Sunday 2100z (1500 MDT). Maximum operation: 24 of the 30 hours. Minimum off time: 30 minutes (indicate off time in log).

CLRSS: FIXED, MOBILE, PORTABLE (Single & Multi-op categories). One signal transmitted at a time. ALL CONTACTS MUST BE SIMPLEX!

EXCHANGE: Utah stations send QSO number, name and county. Stations outside Utah send QSO number, name and state/province. DX stations send only QSO number and name. There is no partial contact credit. FIXED STATION- Phone contact is worth 2 points, CW contact: 4 points. UTAH MOBILE or PORTABLE- Phone contact: 4 points, CW contact: 8 points.

MULTIPLIERS: Utah Stations— count states (48), Canadian Provinces (13), and Countries (including KH6 and KL7, excluding VE/W). Use the CQWW multiplier list of countries. Utah stations may work other Utah Stations for QSO credit, but no credit is given for different counties worked in Utah. Only the State credit can be counted. Multipliers are counted once per band. The same station can be worked on each different band and mode for QSO points.

COUNTY LISTS:

BEV, BV-Beaver CAC, CA-Cache DAG, DG- Daggett Box, Bo-Box Elder CAR, CR-Carbon DAV,DV-Davis

THE MICROVOLT

DUC, DU- Duchesne GAR, GA- Garfield IRO, IR- Iron KAN, KA- Kane MOR, MO- Morgan RIC, RI- Rich SAL, SL- Salt Lake SUM, SU- Summit TOL, TO- Tooele UTA, UT- Utah WEB, WE- Weber WSH, WG- Washington EME, EM- Emery GRA, GR- Grand JUA, JU- Juab MIL, MI- Millard PIU, PI- Piute SJU, SJ- San Juan SPE, SP- San Pete SEV, SV- Sevier UIN, UI- Uintah WCH, WC- Wasatch WAY, WN - Wayne

SCORE:

Total score is the total number of QSO points multiplied by the total number of multipliers.

FREQUENCIES: 160, 80, 40, 20, 15, 10, 6 and 2 meters. WARC band contacts do not count. Suggested phone frequencies: 1850, 3850, 7230, 14,250, 21,300, 28,450. Try 147.54 MHz at 2000, 0000, and 0400z. Suggested CW frequencies: 1810, 3550, 7050, 14,050, 28,050. Try CW on the half-hour, ten meters at 1900z and 160 at 0500z.

ENTRIES: Entries must be post marked no later than October 15, 1996. Logs may be submitted by postal mail to: UCQP, c/o AH3C, 2150 East 6200 South, Salt Lake City, UT 84121. Entries maybe submitted by email in ASCII format to alan@es.com. Label diskettes with call and county/state/province/country. Include a hard copy of the summary sheet. A one dollar donation to help defray the cost of printing and postage is encouraged, but required. To obtain a package containing log and summary sheets send a business size SASE to the above address.

QSO's is required to qualify for an award. The high scoring entry from within Utah and from outside UTAH will receive the UTAH CENTENNIAL QSO CHAMPION TROPHY. Top 5 stations in Utah and top 5 stations outside Utah will receive a BEEHIVE STATE HONEY JAR! Top scoring entries from each Utah County, State province, and country will receive a UTAH CENTENNIAL QSO PARTY certificate. Special awards will be made to selected entries as determined by the awards committee.

OPERATING HINT: The last 6 hours of operating are a must. Roving mobile stations will assure that the rarest counties will be on the air. DX stations, try 20 meters!

NOTE! WE ARE LOOKING FOR VOLUNTEERS TO HELP WITH THIS EVENT. IF YOU ARE INTERSTED CONTACT PETER GRILLO 277-4513



SILENT KEY



DR. CLAYTON CLARX Mr. Propagation

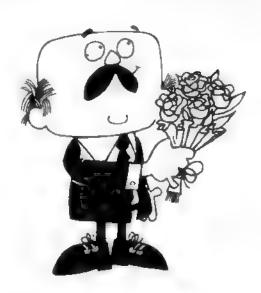
⊕ The sky began to cry today, I didn't know why... the sun was shining, the sky was blue, clouds were passing by. The radio was making "clunking sounds", the salute to someone Grand. We said "good-bye" to Clayton Clark, now I understand.-Eternal 73's Clayton We said good-by to a friend today. Dr Clayton Clark 1996, at Logan Clayton Clark, 84, died June 7th, Regional Hospital of causes incident to age. He was buried at Logan Cemetary. If you still wish to send the family flowers or a card, the family asks that in lieu of flowers contribution to the Sunshine Terrace Foundation or to the Clayon Clark Electrical Engineering Scholarship Fund at USU. (some of this information was provided by the Herald Journal in Logan)

Clayton did his doctoral dissertation at Stanford on a type of propagation known as "Sporadic E:"

Dr. Clark was a Professor Ementus at Utah State University where he taught antenna theory and electromagnetic wave behavior for fifty years. He was quite possibly the most respected authority on these topics in the state.

He is going to be terribly missed by the amateur radio community.

THE MICROVOLT RADIO222 WOMAN???



Romantic Man Lets License Expire... But He's B-A-C-K!

Feature Of The Month

This month we are featuring Stan Stevenson KC7EPU (W8ERL 1928) Stan was licensed in 1928. This was the year UARC officially became a club. In the mean time, Stan was attending John Adams junior high in LosAngeles, California when he was licensed. He became interested in amateur radio when he was taking a class in electricity at the junior high.

Back then, communication in amateur radio was Morse Code only. Voice was around but it was too expensive and unpractical. It wasn't until the late thirties and the early forties that the voice became affordable and easier to use. In those early years there was no such thing as a transceiver. You had to have a receiver and a transmitter in order to communicate. When sending the morse code in the early twenties, they used spark transmitters, but people didn't like them because they were too hard to copy. Stan always used tube transmitters. Stan says it was a challenge back then because you had to zero beat each other in order to communicate. Stan built his own radio equipment.

Stan was very active in handling emergencies. The time he remembered the most was when he was handling emergency traffic for the Long Beach California Earthquake in 1933. Many messages were sent and received and it was all done with morse code. The hams were highly praised by Long Beach County for their excellent work.

THE MICROVOLT

Stan was a Radioman in the Navy for four years. He also worked for the L.A. Police Department for twenty years. After getting out of the Navy, he fell in love and got married. Stan says that romance was more fun than radio and let his license lapse. It wasn't until many years later that he was re-licensed. When he came to Utah in 1977, he was the director of court services in Salt Lake County and was on the los Angeles County. Superior Court before he came to Utah. It was in 1993 when an old friend told MARA about Stan. They located him and convinced him to get back into radio. He received his technician plus license and in July 1994 obtained his general license. He said it was easy. "It is like riding a bike, once you learn you never forget". Stan is a member of ARES and MARA.

Stan, welcome back to the hobby 73 N7HVF Linda Reeder

REMEMBER THAT
YOU ONLY
HAVE UNTIL 6 JULY
TO BUY YOUR
STEAK FRY TICKETS:
TALK TO GARY
OPENSHAW FOR
SPECIFICS:
(prices follow...)



STEAK FRY PRICES

MEMBERS \$2.00 Children \$3.00 Guests \$9.00





THE MICROVOLT STAFF WOULD LIKE TO WISH EVERYONE OUT THERE A VERY HADDY FOURTH OF JULY:
PLEASE REMEMBER TO BE CAREFUL!

11 FROM THF**EDITOR**

I am most likely going to be in the Ohio Valley during the Steak Fry, so if someone has something that they want in Septembers issue of Microvolt, please make sure you send it to me before August 10th. Thanks,

Cokie Eddy

NO LITTLE LEOS ALOUD

"Little LEO" Interests Threaten Ham Bands



The following information was taken from ARRL Bulletins ARLB032 through ARLB036, dated May 30, 1996, and ARLB037 dated June 6, 1996.

The American Radio Relay League is asking radio amateurs across the United States to help defeat a threat to the two most heavily used amateur VHF and UHF

An industry working group known as IWG-2A that is preparing draft US proposals for the 1997 World Radiocommunication Conference has before

it a list of "candidate bands" for low-earth orbit mobile satellites ("little LEOs") that includes, among a number of others suggested for consideration, the 144 and 420 MHz

THE MICROVOLT

bands. Little LEOs are intended mainly to offer commercial paging and other low-data-rate messaging services. The list of candidate bands was submitted by little LEO industry representatives at a meeting of IWG-2A on May 7. ARRL Technical Relations Manager Paul Rinaldo, W4RI, was present and objected strongly to the inclusion of these two bands. He was told objections should be submitted in written comments, and the ARRL did so on May 15. At the same time the ARRL advised the industry participants in IWG-2A along with its chairman, Warren Richards of the Department of State, that if we did not receive assurance that the bands would be dropped from the list of candidate bands we would have no choice but to advise members in July QST that the bands were under threat. No such assurances were forthcoming. Instead, we were told that as long as little LEO allocations requirements remained unsatisfied, everything had to remain on the table.

This response was not acceptable. Accordingly, when July QST went to the printer on Tuesday, May 28, it

included the following editorial.

The editorial speaks for itself, but it is worth emphasizing that there is no reason for panic. What we are dealing with is an ill-considered industry effort that is in its early stages, there is no reason to believe there is any government support for any move against

these two amateur bands. Our mission is to quash the idea before it goes any further. An outpouring of thoughtful comment by amateurs, explaining why the public interest would not be served by the introduction of commercial services into these bands, will go a long way toward ensuring the desired outcome.

The editorial may be reprinted in its entirety with the

"Reprinted with permission from July 1996 QST."

It Seems to Us, July 1996 QST:

Write Now. Get out a pen and paper, or boot up your computer. There's

work to be done. Your help is needed to defend two meters and 70 cm.

Yes, that's right-the two most popular and crowded amateur VHF/UHF bands. But don't panic, and don't "go ballistic." Here's what's happening, and what you can do

The United States is preparing for the 1997 ITU World Radiocommunication Conference, WRC-97. In the past, the public has been able to participate in the preparations for such conferences by responding to FCC Notices of Inquiry. In March, the FCC announced a streamlining of its International Bureau's preparatory

processes for WRCs. Under the new scheme, the NOIs have been eliminated in favor of increased emphasis on WRC Advisory Committees.

For WRC-97, a series of Informal Working Groups (IWGs) of the Advisory Committee has been created to address specific agenda items. The output of each IWG will go directly to a joint FCC-NTIA-Department of State Steering Committee of the Advisory Committee. There, draft proposals as received from the IWGs will be reviewed and forwarded to the FCC for possible release as preliminary U.S. proposals for public comment.

In announcing the streamlined WRC preparatory process, the FCC tried to reassure those who might be concerned about reduced opportunities

for public participation: "Interested parties should note that input to the Advisory Committee may be sent at any time directly to the Chair of the WRC-97 Advisory Committee, the Chairs of the Advisory Committee's Informal Working Groups, Cecily C. Holiday, the FCC's federal officer of the WRC-97 Advisory Committee, or to Damon C. Ladson, the alternate federal officer." Hold that thought while we shift gears to the substance of the issue

One of the WRC-97 agenda items includes consideration of possible additional frequency allocations for the mobile-satellite service.

So-called "little LEOs," low-earth orbit satellites below 1 GHz, already have allocations. Their proponents claim these are inadequate and are trying for more. The needs of little LEOs are being addressed

in IWG-2A, chaired by Warren Richards of the Department of State. The ARRL technical relations staff participates in IWG-2A to represent Amateur Radio interests. At the May 7 IWG-2A meeting, an industry representative proposed a list of "candidate bands" for little LEOs.

The list includes a number of bands that would negatively impact existing services, and does not include others that would be technically more feasible but to which strong objection from incumbents could be expected—the point being that some political,

rather than purely technical, judgment already has influenced the list. Incredibly, 144-148 and 420-450 MHz were included on the list.

This is the first time in memory that another service has been proposed for the two-meter amateur band. We must make sure it is also the last time.

We do not need to explain to ARRL members the extensive use that is made of these bands by amateurs. The two bands provide the backbone of

our local public service communications effort. Voice and data, mobile and fixed, even television—the list of present amateur uses is a long one, and of future uses is even longer. Both are already used for satellite services and for moonbounce and extended-range terrestrial operations requiring extremely sensitive receivers and high levels of effective radiated power.

Apparently we did need to explain all this to the little LEO industry representatives, so we did just that—both at the meeting and in a follow-up letter on May 15. We also explained that we had to regard the matter as extremely serious. No one with the slightest background in radiocommunication could possibly believe that a mobile-satellite service could be introduced into either band without disrupting existing and future amateur operations. Therefore, we said, if we did not receive assurance that they would be taken off the list of candidate bands by the deadline for this issue of QST, we would have no choice

THE MICROVOLT

but to bring the matter to the attention of the entire membership.

The response we received was unsatisfactory. In effect, we were told the little LEO industry would consider our views but that until their spectrum needs are satisfied, all bands must remain under consideration.

So, this is a call to action. We must get across to the industry and government participants in IWG-2A that the 144-148 MHz and 420-450 MHz bands cannot be considered as candidates for mobile-satellite services. We need to drive the point home so forcefully, with so many grassroots responses, that no one is ever tempted to try this again.

Which brings us back to that invitation for "interested parties" to send input "at any time." There's no time like the present.

nstead of directing comments to the list of individuals distributed in an earlier bulletin and included in the pre-press version of K1ZZ's editorial, send comments by e-mail to wrc97@fcc.gov. Send written comments—an original plus one copy—to Office of the Secretary,

Federal Communications Commission, Washington, DC 20554. Each comment

should include at the top, "Reference No. ISP-96-005" and "Advisory Committee Informal Working Group 2A." The FCC staff says comments will be given prompt consideration. All written and electronic comments from Amateur Radio operators received at the Commission have been included as part of the public record on WRC-97

Do comment. But be civil. Don't abuse people who are simply doing their jobs. We have to get across that casting covetous eyes on amateur bands is counterproductive, and contrary to the public interest. To accomplish this we need a lot of comments, including yours. But remember that the objective is to educate and persuade, not to intimidate. We don't need to. The facts are on our side.

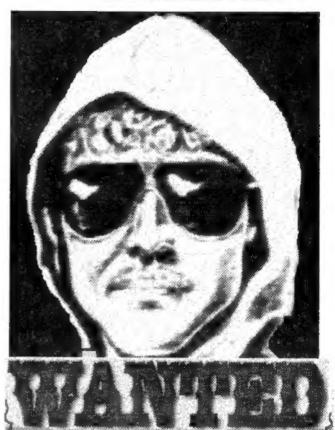
To monitor the FCC's ongoing WRC-97 preparations, visit its WRC-97 home page at: http://www.fcc.gov/ib/wrc97/. Write now. Right now. DavidSumner, K1ZZ

ON ADVICE-NOT SO GOOD (QUOTED BY CASEY STENGAL) PON'T CUT OFF YOUR NOSE YOURSELF



DON'T LET THIS HAPPEN TO US





BY THE U.A.R.C

IF YOU OR SOMEONE THAT YOU KNOW IS
NOT RECEIVING THEIR MICROVOLTS,
PLEASE CONTACT GARY OPENSHAW

I AM NOT SURE BUT I AM UNDER THE IMPRESSION THAT EVEN THOUGH THE MICROVOLT HAS ONLY BEEN OUT SINCE JANUARY, NOVEMBER'S ROSTER THAT WE RECEIVED IN JANUARY IS GOING TO BE HELD AGAINST ME, SO I MAY HAVE TO FLOAT AN EXTRA MICROVOLT MAYBE NOVEMBER?-ed Kc7mdv